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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/810,475

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Michael W. Frauens

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EXAMINER

LABOMBARD, RUTH NAOMI

ART UNIT

PAPER NUMBER

2852

MAIL DATE

DELIVERY MODE

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/810,475	Applicant(s) FRAUENS ET AL.	
	Examiner RUTH N. LABOMBARD	Art Unit 2852	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 October 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,2,5,7,8,12,23-44 and 50 is/are pending in the application.
- 4a) Of the above claim(s) 31-44 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,2,5,7,8,12,23-30 and 50 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Specification

Claim Objections

1. The objections to the specification and claims in the previous Office action have been withdrawn in light of the amendments received on October 28, 2008.
2. Claim 23 is objected to because of the following informalities:
 - a. Line 2: "the system" should be amended to "the printing system"
 - b. Lines 9 and 16: "individual ones" should be amended to improve clarity.
 - c. Line 17: "first set" should be amended to "second set"

Appropriate correction is required.

Claim Rejections - 35 USC § 103

3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
4. Claims 1, 2, 5, 7, 12, 23 and 50 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kaukeinen et al. (JP 07043978 A) in view of Desie et al. (US 6,246,424 B1).
5. Kaukeinen et al. disclose a powder deposition device (100), the powder deposition device (100) comprising: a frame support (frame of device 100) defining a receiver transport path; a first toning station (15) comprising a first toning roller (102) and a first rotating magnetic core (104) for forming a magnetic brush, wherein the first toning roller (102) is positioned with a long axis of the respective toning roller (102) substantially perpendicular to the receiver transport path and offset a distance (offset

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vertically from path, see figure 1), for applying the magnetic brush for printing on a first area of a print medium receiver (1) in said receiver transport path; and a second toning station (74) comprising a second toning roller (102) and a second rotating magnetic core (104), wherein the second toning roller (102) positioned with a long axis of the second toning roller (102) substantially perpendicular to the receiver transport path and offset a distance relative to the first toning roller (102) (offset downstream), for applying the magnetic brush for printing on a second area of a print medium receiver (1) in said receiver transport path; wherein the first toning station (15) partially overlaps the second toning station (74) in a direction perpendicular to the receiver transport path, thereby allowing both toning stations (15, 74) to print on a same area of the print medium receiver (1) while the respective magnetic brushes are in contact with the print medium receiver (1). See figures 1 and 2.

6. Kaukeinen et al. differ from the instant invention by failing to disclose having an increased toning width and the ability to print in an extended area of the print medium receiver.

7. Desie et al. disclose a plurality of toning stations overlapping and covering an extended print area in order to provide a device capable of wide format toning. See figure 4 and column 1, lines 11-13.

8. It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to modify Kaukeinen et al. to include a plurality of toning stations over an extended width in to create a large format printer as taught by Desie et al.

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9. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Kaukeinen et al. (JP 07043978 A) in view of Desie et al. (US 6,246,424 B1) and further in view of Costrop et al. (US 5,848,339)

10. Kaukeinen et al. in view of Desie et al., as presented above, differ from the instant invention by failing to disclose toning stations on both sides of a transport path for double sided printing.

11. Costrop et al. disclose toning stations on both sides of a transport path for double sided printing. See figure 1.

12. It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to modify Kaukeinen et al. to include toning stations on both sides of a transport path in order to create a double sided image as taught by Costrop et al.

13. Claims 23-27 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kaukeinen et al. (JP 07043978 A) in view of Rushing (US 6,671,052 B1).

14. Kaukeinen et al. differ from the instant invention by failing to disclose sets of toning stations configured to print on an extended area. Kaukeinen et al. further fail to disclose measuring the density of toner deposited by the toning stations.

15. Rushing discloses four developing units for wide format toning. See figure 5 and column 6, lines 26 and 27. Rushing further discloses measuring the density of toner (column 8, lines 5+ and column 6, lines 25-40).

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16. It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to modify Kaukeinen et al. to include four developing units and to measure the density of toner, as taught by Rushing, in order to enhance image quality.

17. Claims 23, 28 and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kaukeinen et al. (JP 07043978 A) in view of Desie et al. (US 6,246,424 B1) and further in view of Nakazato (US 6,483,997 B1).

18. Kaukeinen et al. disclose a printing system (100), the system (100) comprising: a frame support (frame of device 100) defining a receiver transport path; overlapping toning stations (15, 74, 72) wherein the toning stations (15, 74, 72) include a rotating magnetic core (104) for forming a magnetic brush and a toning roller (102) for applying the magnetic brush to a print medium receiver (1) in said receiver transport path, wherein the toning stations (15, 74, 72) are positioned substantially perpendicular to the receiver transport path and individual ones of the overlapping toning stations (15, 74, 72) are offset (see figure 1).

19. Kaukeinen et al. differ from the instant invention by failing to disclose sets of toning stations configured to print on an extended area. Kaukeinen et al. further fail to disclose measuring the density of toner deposited by the toning stations.

20. Desie et al. disclose a plurality of toning stations overlapping and covering an extended print area in order to provide a device capable of wide format toning. See figure 4 and column 1, lines 11-13.

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21. It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to modify Kaukeinen et al. to include a plurality of toning stations over an extended width in to create a large format printer as taught by Desie et al.

22. Kaukeinen et al. further differ from the instant invention by failing to disclose measuring an amount of toner deposited and adjusting the biases of the toning stations.

23. Nakazato discloses detecting toner density and adjusting a toning bias in order to more accurately determine optimal electrifying and developing biases.

24. It would have been obvious to one of ordinary skill in the art, at the time the invention was made, to modify Kaukeinen et al. in view of Desie et al. to include detecting density and adjusting a bias in order to more accurately determine optimal electrifying and developing biases and in doing so improve image quality.

Response to Arguments

25. Applicant's arguments with respect to claims 1, 2, 5, 7, 8, 12, 23-30 and 50 have been considered but are moot in view of the new ground(s) of rejection.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to RUTH N. LABOMBARD whose telephone number is (571) 272-6430. The examiner can normally be reached on Monday - Friday, 7:30am - 4:00pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Gray can be reached on (571) 272-2119. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/David M Gray/
Supervisory Patent Examiner,
Art Unit 2852

/RNL/
12/17/08